CLAIMS

What is claimed is:

1   1.   A method of transferring an application file from a personal computer to a personal
2   digital assistant through a conduit, the method comprising:
3   a.   generating a file corresponding to the application file;
4   b.   reading a portion of the file into a record, wherein the record is a predetermined
5   size;
6   c.   copying the record to a record buffer; and
7   d.   transmitting the records in the record buffer to the personal digital assistant,
8   wherein reading a portion of the file into a record is repeated until all of the file is read
9   into a set of records.

1   2.   The method according to claim 1 wherein an application information block is transmitted
2   with the contents of the record buffer.

1   3.   The method according to claim 1 further comprising allocating the predetermined record
2   size and calculating the number of records prior to reading a portion of the file into a
3   record.

1   4.   The method according to claim 3 wherein the predetermined record size is less than 64
2   KB.

1   5.   The method according to claim 2 wherein the application information block includes:
2   a.   size of the records being transmitted; and
3   b.   number of the records being transmitted.

1   6.   The method according to claim 1 wherein when the contents of the record buffer are
2   received in the personal digital assistant, the method further comprising:
3   a.   reading the application information block;
4   b.   opening the records;
5   c.   reading each of the records of the database;

6   d.   writing each of the records of the database to a storage heap; and

7   e.   closing the file.

1   7.   A system for transferring an application file from a personal computer to a personal

2   digital assistant via a conduit, the system comprising:

3   a.   means for generating a file corresponding to the application file;

4   b.   a first means for reading a portion of the file into a record, wherein the record is a

5   predetermined size;

6   c.   means for copying the record to a record buffer; and

7   d.   means for transmitting the records in the record buffer to the personal digital

8   assistant,

9   wherein the first means for reading operates until all of the file is read into a set of

10   records.

1   8.   The system according to claim 7 wherein an application information block is transmitted

2   with the contents of the record buffer.

1   9.   The system according to claim 7 further comprising means for allocating the

2   predetermined record size and calculating the number of records.

1   10.   The system according to claim 9 wherein the predetermined record size is less than 64

2   KB.

1   11.   The system according to claim 8 wherein the application information block includes:

2   a.   size of the records being transmitted; and

3   b.   number of the records being transmitted.

1   12.   The system according to claim 7 wherein when the contents of the record buffer are

2   received in the personal digital assistant, the system further comprises:

3   a.   a second means for reading the application information block;

4   b.   means for opening the records with a database manager;

5   c.   a third means for reading each of the records of the file with the database

6   manager;

7   d.   means for writing each of the records of the file to a storage heap with a file
8   stream manager; and
9   e.   means for closing the file and the file stream manager.

1 13. A system for transferring an application file via a conduit, the system comprising:
2   a.   a personal computer configured to generate a file corresponding to the application
3   file, wherein a portion of the file is read into a record, wherein the record is a
4   predetermined size, and further wherein the file is read until all of the file is read
5   into a set of records; and
6   b.   a record buffer configured to receive the set of records, where the personal
7   computer is configured to transmit contents of the record buffer to a personal
8   digital assistant.

1 14. The system according to claim 13 wherein an application information block is transmitted
2   with the contents of the record buffer.

1 15. The system according to claim 13 wherein the predetermined record size is allocated and
2   the number of records is calculated prior to reading the file into the set of records.

1 16. The system according to claim 13 wherein the predetermined record size is less than 64
2   KB.

1 17. The system according to claim 14 wherein the application information block includes:
2   a.   size of the records being transmitted; and
3   b.   number of the records being transmitted.

1 18. The system according to claim 13 wherein the contents of the record buffer are received
2   in a personal digital assistant, the system further comprising:
3   a.   a database manager configured to read the application information block, and
4   further configured to open each of the set of records; and
5   b.   a storage heap configured to receive each of the set of records wherein each of the
6   set of records is written to the file heap by a file stream manager,

7   further wherein the file and the file stream manager are closed after the set of records are

8   written to the storage heap.

1   19.   A method of transferring an application file from a personal computer to a personal

2   digital assistant via a conduit, the method comprising:

3   a.   generating a file corresponding to the application file;

4   b.   reading a portion of the file into a record, wherein the record is a predetermined

5   size;

6   c.   copying the record to a record buffer;

7   d.   transmitting the contents of the record buffer to the personal digital assistant,

8   wherein reading a portion of the file into a record is repeated until all of the file is

9   read into a set of records, and further wherein an application information block is

10   transmitted with the contents of the record buffer;

11   e.   receiving the contents of the record buffer in the personal digital assistant;

12   f.   reading the application information block;

13   g.   opening the records with a database manager;

14   h.   reading each of the records of the file with the database manager;

15   j.   writing each of the records of the file to a storage heap with a file stream manager;

16   and

17   k.   closing the file and the file stream manager.

1   20.   The method according to claim 19 further comprising allocating the predetermined record

2   size and calculating the number of records prior to the reading a portion of the file into a

3   record.

1   21.   The method according to claim 20 wherein the predetermined record size is less than 64

2   KB.

1   22.   The method according to claim 19 wherein the application information block includes:

2   a.   size of the records being transmitted; and

3   b.   number of the records being transmitted.

1   23.   A system for transferring an application file via a conduit, the system comprising:

2   a.   a personal computer configured to generate a file corresponding to the application

3   file, wherein a portion of the file is read into a record, wherein the record is a

4   predetermined size, and further wherein the file is read until all of the file is read

5   into a set of records;

6   b.   a record buffer configured to receive the set of records, where the personal

7   computer is configured to transmit contents of the record buffer through a conduit,

8   and further wherein an application information block is transmitted with the

9   contents of the record buffer; and

10   c.   a personal digital assistant configured to receive the contents of the second buffer,

11   the personal digital assistant including:

12   i.   a database manager configured to read the application information block,

13   and further configured to open each of the set of records; and

14   ii.   a storage heap configured to receive each of the set of records wherein

15   each of the set of records is written to the file heap by a file stream

16   manager, and further wherein the file and the file stream manager are

17   closed after the set of records are written to the storage heap.

1   24.   The system according to claim 23 wherein the predetermined record size is allocated and

2   the number of records is calculated prior to reading the file into the set of records.

1   25.   The system according to claim 24 wherein the predetermined record size is less than 64

2   KB.

1   26.   The system according to claim 23 wherein the application information block includes:

2   a.   size of the records being transmitted; and

3   b.   number of the records being transmitted.